

FIG. 1 (SEQ ID NOS: 1 and 5)

1 GAGGTCCAGC TTCAGCAGTC TGGACCTGAC CTGGTGAAGC CTGGGGCTTC
 E V Q L Q Q S G P D L V K P G A S

 51 AGTGAAGATA TCCTGCAAGG CTTCTGGTTA CTCATTCACT GGCTACTACA
 V K I S C K A S G Y S F T G Y Y

 101 TGCAC TGGGT GAAGCAGAGC CATGGAAAGA GCCTTGAGTG GATTGGACGT
 M H W V K Q S H G K S L E W I G R

 151 ATTAATCCTA ACAATGGTGT TACTCTCTAC AACAGAAAAT TCAAGGACAA
 I N P N N G V T L Y N Q K F K D K

 201 GGCCATATTA ACTGTAGACA AGTCATCCAC CACAGCCTAC ATGGAGCTCC
 A I L T V D K S S T T A Y M E L

 251 GCAGCCTGAC ATCTGAGGAC TCTGCGGTCT ATTACTGTGC AAGATCTACT
 R S L T S E D S A V Y Y C A R S T

 301 ATGATTACGA ACTATGTTAT GGACTACTGG GGTCAAGTAA CCTCAGTCAC
 M I T N Y V M D Y W G Q V T S V T

 351 CGTCTCCTCA GGTGGTGGTG GGAGCGGTGG TGGCGGCACT GGCGGCGGCG
 V S S G G G G S G G G G T G G G

 401 GATCTAGTAT TGTGATGACC CAGACTCCCA CATTCCCTGCT TGTTTCAGCA
 G S S I V M T Q T P T F L L V S A

 451 GGAGACAGGG TTACCATAAC CTGCAAGGCC AGTCAGAGTG TGAGTAATGA
 C D R V T I T C K A S Q S V S N D

 501 TGTAGDTTGG TACCAACAGA AGCCAGGGCA GTCTCCTACA CTGCTCATAT
 V A W Y Q Q K P G Q S P T L L I

 551 CCTATAACATC CAGTCGCTAC GCTGGAGTCC CTGATCGCTT CATTGGCAGT
 S Y T S S R Y A G V P D R F I G S

 601 GGATATGGGA CGGATTTCAC TTTCACCATC AGCACTTTGC AGGCTGAAGA
 G Y G T D F T F T I S T L Q A E D

 651 CCTGGCAGTT TATTTCTGTC AGCAAGATTA TAATTCTCCT CCGACGTTCG
 L A V Y F C Q Q D Y N S P P T F

 701 GTGGAGGCAC CAAGCTGGAA ATCAAACGG
 G G G T K L E I K R

FIG. 2 (SEQ IDNOS: 3 and 7)

ATGGGCCACA CACGGAGGCA GGGAACATCA CCATCCAAGT GTCCATACCT	50
M G H T R R Q G T S P S K C P Y L	
CAATTCTTT CAGCTCTTGG TGCTGGCTGG TCTTTCTCAC TTCTGTTCAG	100
N F F Q L L V L A G L S H F C S	
GTGTTATCCA CGTGACCAAG GAAGTGAAAG AAGTGGCAAC GCTGTCCTGT	150
G V I H V T K E V K E V A T L S C	
GGTCACAATG TTTCTGTTGA AGAGCTGGCA CAAACTCGCA TCTACTGGCA	200
G H N V S V E E L A Q T R I Y W Q	
AAAGGAGAAG AAAATGGTGC TGACTATGAT GTCTGGGGAC ATGAATATAT	250
K E K K M V L T M M S G D M N I	
GGCCCGAGTA CAAGAACCGG ACCATCTTG ATATCACTAA TAACCTCTCC	300
W P E Y K N R T I F D I T N N L S	
ATTGTGATCC TGGCTCTGCG CCCATCTGAC GAGGGCACAT ACGAGTGTGT	350
I V I L A L R P S D E G T Y E C V	
TGTTCTGAAG TATGAAAAAG ACGCTTCAA GCGGGAACAC CTGGCTGAAG	400
V L K Y E K D A F K R E H L A E	
TGACGTTATC AGTCAAAGCT GACTTCCCTA CACCTAGTAT ATCTGACTTT	450
V T L S V K A D F P T P S I S D F	
GAAATTCCAA CTTCTAATAT TAGAAGGATA ATTTGCTCAA CCTCTGGAGG	500
E T P T S N I R R I I C S T S G G	
TTTCCAGAG CCTCACCTCT CCTGGTTGGA AAATGGAGAA GAATTAAATG	550
F P E P H L S W L E N G E E L N	
CCATCAACAC AACAGTTCC CAAGATCCTG AAACTGAGCT CTATGCTGTT	600
A I N T T V S Q D P E T E Y A V	
AGCAGCAAAC TGGATTTCAA TATGACAACC AACACAGCT TCATGTGTCT	650
S S K L D F N M T T N H S F M C L	
CATCAAGTAT GGACATTTAA GAGTGAATCA GACCTCAAC TGGAATACAA	700
I K Y G H L R V N Q T F N W N T	
CCAAGCAAGA GCATTTCCCT GATGGAGGCG GGGGATCCGA GGTCCAGCTT	750
T K Q E H F P D G G G G S E V Q L	

CAGCAGTCTG GACCTGACCT GGTGAAGCCT GGGGCTTCAG TGAAGATATC Q Q S G P D L V K P G A S V K I S	800
CTGCAAGGCT TCTGGTTACT CATTCACTGG CTACTACATG CACTGGGTGA C K A S G Y S F T G Y Y M H W V	850
AGCAGAGCCA TGGAAAGAGC CTTGAGTGGA TTGGACGTAT TAATCCTAAC K Q S H G K S L E W I G R I N P N	900
AATGGTGT TA CTCTCTACAA CCAGAAATT C AAGGACAAGG CCATATTAAC N G V T L Y N Q K F K D K A I L T	950
TGTAGACAAG TCATCCACCA CAGCCTACAT GGAGCTCCGC AGCCTGACAT V D K S S T T A Y M E L R S L T	1000
CTGACCACTC TCGGGTCTAT TACTGTGCAA GATCTACTAT GATTACGAAC S E D S A V Y Y C A R S T M I T N	1050
TATGTTATGG ACTACTCCCC TCAAGTAACC TCAGTCACCG TCTCCTCAGG Y V M D Y W G Q V T S V T V S S G	1100
TGGTGGTGGG AGCGGTGGTG GCGGCACTGC CGCCGGCGGA TCTAGTATTG G G G S G G G G T G G G G S S I	1150
TGATGACCCA GACTCCCACA TTCCTGCTTG TTTCAGCAGG AGACACCCCTT V M T Q T P T F L L V S A G D R V	1200
ACCATAACCT GCAAGGCCAG TCAGAGTGTG AGTAATGATG TAGCTTGGTA T I T C K A S Q S V S N D V A W Y	1250
CCAACAGAAG CCAGGGCAGT CTCCTACACT GCTCATATCC TATACATCCA Q Q K P G Q S P T L L I S Y T S	1300
GTCGCTACGC TGGAGTCCCT GATCGCTTCA TTGGCAGTGG ATATGGGACG S R Y A G V P D R F I G S G Y G T	1350
GATTCACCT TCACCATCAG CACTTGCAG GCTGAAGACC TGGCAGTTA D F T F T I S T L Q A E D L A V Y	1400
TTTCTGTCAG CAAGATTATA ATTCTCCTCC GACGTTGGT GGAGGCACCA F C Q Q D Y N S P P T F G G G T	1450
AGCTGGAAAT CAAATAA K L E I K	

FIG. 2_{CONT'D}

1 ATGGGACTGA GTAACATTCT CTTTGTGATG GCCTTCCTGC TCTCTGGTGC
 M G L S N I L F V M A F L L S G A
 51 TGCTCCTCTG AAGATTCAAG CTTATTCAA TGAGACTGCA GACCTGCCAT
 A P L K I Q A Y F N E T A D L P
 101 GCCAATTGCG AAACCTCTCAA AACCAAAGCC TGAGTGAGCT AGTAGTATTT
 C Q F A N S Q N Q S L S E L V V F
 151 TGGCAGGACC AGGAAAACCTT GGTTCTGAAT GAGGTATACT TAGGCAAAGA
 W Q D Q E N L V L N E V Y L G K E
 201 GAAATTTGAC AGTGTTCATT CCAAGTATAT GGGCCGCACA AGTTTGATT
 K F D S V H S K Y M G R T S F D
 251 CGGACAGTTG GACCTGAGA CTTCACAAATC TTCAGATCAA GGACAAGGGC
 S D S W T L R L H N L Q I K D K G
 301 TTGTATCAAT GTATCATCCA TCACAAAAAG CCCACAGGAA TGATTCGCAT
 L Y Q C I I H H K K P T G M I R I
 351 CCACCAGATG AATTCTGAAC TGTCAGTGCT TGCTAACTTC AGTCAACCTG
 H Q M N S E L S V L A N F S Q P
 401 AAATAGTACC AATTCTAAT ATAACAGAAA ATGTGTACAT AAATTTGACC
 E I V P I S N I T E N V Y I N L T
 451 TGCTCATCTA TACACGGTTA CCCAGAACCT AAGAAGATGA GTGTTTGCT
 C S S I H G Y P E P K K M S V L L
 501 AAGAACCAAG AATTCAACTA TCGAGTATGA TGGTATTATG CAGAAATCTC
 R T K N S T I E Y D G I M Q K S
 551 AAGATAATGT CACAGAACTG TACGACGTTT CCATCAGCTT GTCTGTTCA
 Q D N V T E L Y D V S I S L S V S
 601 TTCCCTGATG TTACGAGCAA TATGACCATC TTCTGTATTC TGAAACTGA
 F P D V T S N M T I F C I L E T D
 651 CAACACCCGG CTTTTATCTT CACCTTCCTC TATAGAGCTT GAGGACCCTC
 K T R L L S S P F S I E L E D P
 701 AGCCTCCCCC AGACCACATT CCTGGAGGCG GGGGATCC
 Q P P P D H I P G G G G S

FIG. 4 (SEQ ID NOS: 9 and 10)

FIG. 5 (SEQ ID NO: 11)

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atggcttgca attgtcagtt gatgcaggat acaccactcc tcaagttcc atgtccaagg 60
ctcattttc tctttgtct gctgattcg tttcacaaag tgccttcaga tggtatgaa 120
caactgtcca agtcagtcaa agataaggta ttgcgtcc gccgttacaa ctctccgcat 180
gaagatgagt ctgaagaccg aatctactgg caaaaacatg acaaagtggt gctgtctg 240
attgctggaa aactaaaagt gtggcccgag tataagaacc ggactttata tgacaacact 300
acctactctc ttatcatcct gggcctggc ctttcagacc ggggcacata cagctgtgc 360
gttcaaaaga agggaaaqaqq aacqtatqaa gttaaacact tggcttttagt aaagt.tgtcc 420
atcaaagctg actctctac ccccaacata actgagtcg gaaacccatc tgcagacact 480
aaaaggatta cctgcttgc ttccggggt ttcccaaagc ctcgcttctc ttgggttggaa 540
aatggaaag aattacctgg catcaatacg acaattccc aggatctga atctgaattg 600
tacaccattt gtagccaaact agatttcaat aegactegea accacacat taagtgtctc 660
attaaatatg gagatgctca cgtgtcagag gacttcaccc gggaaaaacc cccagaagac 720
cctcctgata gcaagcccg ggggtggg agcgggtggc gccgcagtgg cggccggcgg 780
actagtgagg tccagcttca gcagtctgga cctgacctgg tgaagcctgg ggcttcagt 840
dayalalcc gcaaggcttc tggttactca ttcaactggct actacatgca ctgggtgaag 900
cagagccatg gaaagagcc tgagtggatt ggacgttata atcctaacaa tggtgttact 960
ctctacaacc agaaattcaa ggacaaggcc atattaactg tagacaagtc atccaccaca 1020
gcctacatgg agctcccgag cctgacatct gaggactcg cggtcttata ctqtqcaaq 1080
tctactatga ttacgaacta tggttatggac tactggggc aagtaacttc agtcaccgtc 1140
tcttcaggtg gtgggtggag cgggtggc ggcactggc gccgcggatc tagtattgt 1200
atgaccacca ctcccacatt cctgcttgc tcagcaggag acagggttac cataacctc 1260
aaggccagtc agagtgttag taatgtatgt gcttggtacc aacagaagcc agggcagtct 1320
cctacactgc tcatatccta tacatccagt cgctacgctg gagtccctga tcgcttcatt 1380
ggcagttggat atgggacgga tttcaacttc accatcagca ctttcggc tgaagacctg 1440
gcagtttatt tctgtcagca agattataat tctccctccga cgttcgggtgg aggcaccaag 1500
ctggaaatca aacggtaa 1518

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FIG. 6 (SEQ ID NOS: 4 and 8)

Leader / 5T4 scFv / IgG DNA and deduced protein sequence

CTCGAGCCACCATGGGATGGAGCTGTATCATCCTCTTGGTAGCAACAGCTACAGGTGTCCACTCCGAGGTCCAGCTG
 M G W S C I I L F L V A T A T G V H S E V Q L

CAGCAGTCTGGACCTGACCTGGTGAAGCTGGGCTTCAGTGAAGATACTCTGCAAGGCTCTGGTTACTCATTCACTGG
 Q Q S G P D L V K P G A S V K I S C K A S G Y S F T

CTACTACATGCACCTGGGTGAAGCAGAGCCATGGAAAGGCCTTGAGTGGATTGGACGTATTAATCTAACAAATGGTGT
 G Y Y M H W V K Q S H G K S L E W I G R I N P N N G V

CTCTCTACAACCAGAAAATTCAAGGACAAGGCCATTAACTGTAGACAAGTCATCCACACAGCCTACATGGAGCTCCGC
 T L Y N Q K F K D K A I L T V D K S S T T A Y M E L R

AGCTCTGACATCTGAGGACTCTGGGTCTATTACTGTCAAGAATCTACTATGATTACGAACATGGTATGGACTACTGGGG
 S L T S E D S A V Y Y C A R S T M I T N Y V M D Y W

TCAAGTAALTTCACTGACCTCTGGTCTTCAGGTGGTGGGGAGCGGTGGTGGCGGCACTGGCGGGCGGATCTAGTATTG
 G Q V T S V T V S S G G G G S G G G G T G G G G S S I

TGATGACCCAGACTCCCACATTCTGCTTCTGCTTCAGCAGGAGACAGGGTTACCATAACCTGCAAGGCCAGTCAGAGTGT
 V M T Q T P T F L L V S A G D R V T T T C K A S Q S V

AGTAATGATGTAGCTGGTACCAAACAGAAGCCAGGGCAGTCCTCACACTGCTCATATCTATACATCCAGTCGCTACGC
 S N D V A W Y Q Q K P G Q S P T L L I S Y T S S R Y

TCCACTCCCTCATCGCTTCATTGGCAGTGGATATGGGACGGATTCACTTTCACCATCAGCACCTTGCAAGGCTGAAGGCC
 A G V P D R F I G S G Y G T D F T F T I S T L Q A E D

TGGCAGTTTATTCCTGTCAGCAAGATTATAATTCTCTCGACGTTCTGGTGGAGGGCACCAAGCTTGAATCAAACGGGCC
 L A V Y F C Q Q D Y N S P P T F G G G G T K L E I K R A

TCCACCAAGGGCCCATCGGTCTTCCCCCTGGCACCCCTCCAAAGCACCTCTGGGGGACAGCGCCCTGGCTGCCT
 S T K G P S V F P L A P S S K S T S G G T A A L G C

GGTCAAGGACTACTTCCCGAACCGGTGACGGTGTGGAACTCAGGCGCCCTCACCCAGGGCTGCACCCCTCCCC
 L V K D Y F P E P V T V S W N S G A L T S G V H T F P

CTGCTCTACAGTCCTCAGGACTCTACTCCCTCAGCAGCGTGGTACCCGTCAGCTGGCACCTCCAGCAGCTGGCACCCAGACCTAC
 A V L Q S S G L Y S L S S V V T V P S S S L G T Q T Y

ATCTGCAACGTGAATCACAAGCCAGCAACACCAAGGTGGACAAGAAAGTTGAGCCAAATCTGTGACAAACTCACAC
 I C N V N H K P S N T K V D K K V E P K S C D K T H

ATGCCACCGTGCCTGACCTGAACCTCCGGGGGACCGTCACTCTGGGGGACCGTCACTCTGGGGGACCCCAAGGACACCCCTCA
 T C P P C P A P E L L L G G P S V F L F P P K P K D T L

TGATCTCCGGACCCCTGAGGTACATGCGTGGTGGACGTGAGCCACGAAGACCCCTGAGGTCAAGTCAACTGGTAC
 M I S R T P E V T C V V V D V S H E D P E V K F N W Y

GTGGACGGCGTGGAGGTGCATAATCCAAGAACAGCCGGAGGAGCAGTACAACAGCACGTACCGTGTGGTCAGCGT
 V D G V E V H N A K T K P R E E Q Y N S T Y R V V S

CCTCACCGTCTGCACCAGGACTGGCTGAATGCCAAGGAGTACAAGTGCACGGCTCCAACAAAGCCCTCCAGGCC
 V L T V L H Q U W L N G K E Y K C K V S N K A L P A P

TCGAGAAAACCATCTCCAAAGCCAAGGGCAGCCCCGAGAACACCAGGTGTACCCCTGCCCATCCGGATGAGCTG
 I E K T I S K A K G Q P R E P Q V Y T L P P S R D E M

ACCAAGAACCGGTCAACCTGCCCTGGTCAAAAGGCTTCTATCCCGCAGCATGCCGTGGAGTGGAGAGCAATGG
 T K N Q V S L T C L V K G F Y P S D I A V E W E S N

GCAGCCGGAGAACAACTACAAGAACACGCCCTCCGTGCTGGACTCCGACGGCTCTTCTCCCTATAGCAAGCTCACCG
 G Q D E N N Y K T T P P V L D S D G C F F L Y S K L T

TGGACAAGAGCAGGTGGCAGCAGGGAAACGTCTCTCATGCTCCGTGATGCATGAGGCTCTGCACAAACCAACTACAGCAG
 V D K S R W Q Q G N V F S C S V M H E A L H N H Y T Q

AAGAGCCCTCTCCCTGTCCCCGGGTAATGACTCGAG
 K S L S L S P G K .

FIG. 7 (SEQ ID NO: 12)

tcgcggccac	catgggatgg	agctgtatca	tccttttctt	ggtagcaaca	gctacaggtg	60
tccactccga	ggtcacgtg	cagcagtctg	gaccgtacct	ggtaagacct	ggggcttcag	120
tgaagatatac	ctgcaaggct	tctggttact	cattcaactgg	ctactacatg	cactgggtga	180
agcagagggca	tggaaagagc	cttgagtgga	ttggacylal	ldalcllaac	aatgggttta	240
ctctctacaa	ccagaaaattc	aaggacaagg	ccatattaaac	tgtagacaag	tcatccacca	300
cagcctacat	ggagctcccg	agccgtacat	ctgaggactc	tgggtcttat	tactgtgcaa	360
gatctactat	gattacgaac	tatgttattatg	actactgggg	tcaagtaact	tcagtcaccg	420
tctcttcagg	tgggtgtggg	agccgtgttg	gcccactgg	cggcggccgga	tctagttatg	480
tgatgaccca	gactccccaca	ttcctgttgc	tttcagcagg	agacagggtt	accataaacct	540
gcaaggccag	tcagagtgtg	agtaatgatg	tagcttggta	ccaacagaag	ccagggcagt	600
ctccctacact	gctcatatcc	tatacatcca	qtcqctacgc	tggagtccct	gatcgctca	660
ttggcagttg	atatgggacg	gatttcaattt	tcaccatcg	cactttgcag	gctgaagacc	720
tggcagttt	tttctgtcag	caagattata	attctcctcc	gacgttcgtt	ggagggcacc	780
agcttgaat	caaaccggcc	ttcacacaga	gcccattcgt	cttcccttgc	acccgcgt	840
gcaaaaaacat	ttccctcaat	gccccatcgg	tgactetggg	ctgcttggcc	acgggtctact	900
tccccggagcc	ggtgatgttg	acctgggaca	caggctccct	caacgggaca	actatgcac	960
taccagccac	caccctcagc	ctctctggtc	actatgccac	catcagcttg	ctgaccgtct	1020
cggttgcgtg	ggccaaagcag	atgttacact	gccgtgtggc	acacactcca	tcgtccacag	1080
atccccggcc	caacaaaacc	ttcagcgtct	gctccaggga	ctrccaccccg	cccacccgt	1140
agatcttaca	gtcgtccctgc	gacggcggcc	ggcacttccc	cccgaccatc	cagctcttgt	1200
gcctcgctc	tgggtacacc	ccagggacta	tcaacatcac	ctggcttggag	gacgggcagg	1260
tcatggacgt	ggacttgc	accggctcttca	ccacggcaggaa	gggtgagctg	gcctccacac	1320
aaaggcgaat	caccctcagc	cagaagact	ggctgtcaga	ccgcacccatc	acctggccagg	1380
tcacctatca	aggtcacacc	tttgaggaca	gccaaggaaa	gtgtgcatc	tccaaaccgg	1440
gaggggttag	cgccctaccta	agccggccca	gcccgttgc	cctgttccatc	cgcaagtgcgc	1500
ccacgatcac	ctgtctggt	gtggacctgg	cacccggca	ggggacccgtg	aacctgaccc	1560
ggtcccgggc	cagtgggaag	cctgtgaacc	actccaccag	aaaggaggag	aagcagcgc	1620
atggcacgtt	aaccgtcagc	tccaccctgc	cggtggcacc	ccgagactgg	atcgaggggg	1680
agacccatcca	gtgcagggtg	acccacccccc	acctgcccag	ggccctcatg	cggtccacga	1740
ccaaagaccc	cgccccgcgt	gtccccccgg	aaglclalyc	ylllycay	ccyyayLyyc	1800
cgggggagcc	ggacaaggcc	accctgcgtt	gctgtatcca	gaacttcatg	cctgaggaca	1860
tctcgggtca	gtgggtgcac	aacggaggtc	agetcggcga	cggccggcacc	agcacaacgc	1920
agcccccccaa	gaccaagggc	tccggcttct	tcgttctcag	ccggcttggag	gtgaccagg	1980
ccgaatggga	gcagaaaagat	gagttcatct	gccgtgcagt	ccatgaggca	gcgagccct	2040
caacagaccgt	ccagcggacgc	gtgtctgtaa	atcccggtaa	atgagagctc		2090

FIG. 8 (SEQ ID no: 13)

atggcttgc	attgtcagtt	gatgcaggat	acaccactcc	tcaagttcc	atgtccaagg	60
ctcattttc	tcttgtgct	gctgattcg	cttcacaag	tgtcttcaga	tgttgatgaa	120
caactgtcca	agtcaagtga	agataaggta	ttgctgcct	gcccgttacaa	ctctccgcat	180
gaagatgagt	ctgaagaccg	aatctactgg	caaaaacatg	acaaagtgg	gctgtctgtc	240
attgctgga	aactaaaaag	gtggcccgag	tataagaacc	ggactttata	tgacaacact	300
acctactctc	ttatcatct	ggccctggc	cttccagacc	ggggcacata	cagctgtgtc	360
gttccaaaaga	aggaaagagg	aaatgtatgg	gtttaaacact	tgcgtttagt	aaagtgttcc	420
atcaaagctg	actttcttac	ccccaaacata	actgagtcgt	gaaaccatc	ttcagacact	480
aaaaggattt	cctgtttgc	ttccgggggt	ttcccaaagc	ctcgcttctc	ttgggtggaa	540
aatggaagag	aattacctgg	catcaatacg	acaatttccc	aggatccctga	atctgaattt	600
tacaccatta	gttagccaact	agatttcaal	ccyauilcyca	ccucaccccal	laaylytctc	660
attaaatatg	gagatgtctc	cgtgtcagag	gacttcacct	ggaaaaaaacc	cccagaagac	720
cctctgtata	gcaagccccc	gggtgggtgg	agccgttgggt	ggggccgttgg	cggccggccga	780
actagtaata	gtgactctga	atgtcccttgc	tcccacatgt	ggtaactgcct	ccatgtatgtt	840
gtgtgcatgt	atattgaagc	attggacaag	tatgcatgca	actgtgttgt	tggctacatc	900
ggggagcgat	gtcagtaccg	agacctgaag	tggtggaaac	tgcgc		945

FIG. 20 (SEQ ID NOS: 35 and 36)

pKLlink – the (Gly₄Ser)₃ linker in pBluescript II SK (pBS II)

Not I	Xba I	<u>Spe I</u>	<u>Bam HI</u>	<u>Sma I</u>	<u>Sal I</u>
		CTAGTACCGGTGGTGGGAGCGGGTGGGGCAGTGCGGGGG	CACCGCCGTACGGCGCCGCTAG	pBS II	
		ATGGGCCACCAACCCTGCCAACACCGCTGTACGGCGCCGCTAG			
		G G G S G G G S G G G S G G S			

FIG. 21 (SEQ ID NO.: 37)

An scFv and leader sequence in pBSII

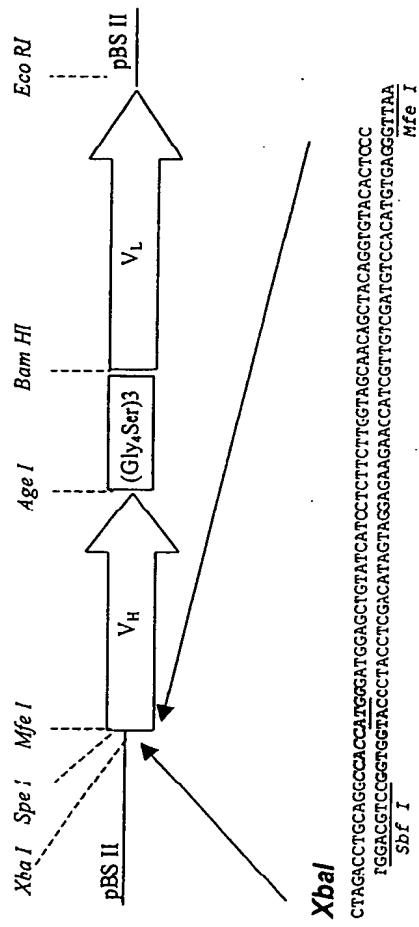


FIG. 26 (SEG ID nos: 14 and 18-)

Canine 5T4 Coding Sequence

ATGCTGGGGGGTGCCTCCGGGGCCCCGCCGGCGGGACGGGCGGTTGCGCCTGGCGCGCTGGCCTGGTCTCCTGGG 80
 M P G G C S R G P A A G D G R L R L A R L A L V L L
 CTGGGTCTCCTCGTCCTCGCTCACCTCTGGGCCCCCTCCGCCGCGCTCCACGTCGCCGGCGCTCCGGCGTCCCG 160
 G W V S S S S L T S W A P S A A A S T S P P A S A A S
 CCCC CGCCCCGCTGCCGGCCAGTGCCCCAGCCTTGCGAGTGCTCGAGGCCGCGCACGGTCAAGTGCCTAACCGC 240
 A P P P L P G Q C P Q P C E C S E A A R T V K C V N R
 AACCTGACCGAGGTGCCCGGGACCTGCCCGGGCTACGTGCGAACCTTCCCTCACGGCAACCAGCTGGCGGTCTGCC 320
 N L T E V P A D L P F Y V R N L F L T G N Q L A V L
 CCCC CGGCCCTCGCCGCCGGCCGGCTGGCCAGCTGGCCGCGCTAACCTGAGCGGCAGCAGCCTGCCGGAGGTGT 400
 P P G A F A R R P P L A E L A A L N L S G S S L R E V
 GCGCCGCCCTCGAGCACCTGCCAGCCTGCCAGCTCGACCTCACGCCACAACCGCTGGCAACCTCAGGCCCTTC 480
 C A G A F E H L P S L R Q L D L S H N P L G N L S A F
 GCCTTCGCCGGCAGCGAACGCCAGGCCAGGGCTGGGGGGGGAGGGGGGGCTGGTGAGCTGATGCTGAACCACATCGT 560
 A F A G S D A S R S G P S P L V E L M L N H I V P P
 CGACCGGGCGCAGAACCGGAGCTCGAGGGCATGGTGGCGCTGCCCTCGAGCGGGCCGCCGCTCGGGGGCTGCAGT 640
 D D R R Q N R S F E G M V A A A L R A G R A L R G L O
 GCCTGGAGCTGCCGCCAACCGCTTCTACTTGCTCGCGACGCTGGCCAGCTACCCGGCCCTCCGCCACCTGGAC 720
 C L E L A G N R F L Y L P R D V L A Q L P G L R H L D
 CTGCGCAACAACTCCCTGGTGAGCCTCACCTACGTGCTTCCGCAACCTGACGCACTTGGAGAGCCTCCACCTGGAGGA 800
 L R N N S L V S L T Y V S F R N L T H L E S L H L E
 CAACGCCCTCAAGTCCTTCAACAACCCACCTGGGGAGCTGCAGAGCCTGCCAACGTCGGGTCTTCTGGACAACA 880
 D N A L K V L H N A T L A E L Q S L P H V . R V F L D N
 ACCCTGGGTCTCGCATGGCAGACATGGCAGACATGGTGGCCTGGCTCAAGGAGACAGAGGGTGGTGCCTGGGAAAGCCGGG 960
 N P W V C D C H M A D M V A W L K E T E V V P G K A G
 CTCACCTGTGCATTCCGGAGAAAATGAGGAATCGGGCCCTTGGAACTCAACAGCTCCACCTGGACTGTGACCTAT 1040
 L T C A F P E K M R N R A L L E L N S S H L D C D P
 CCTCCCTCCATCCCTGCAGACTTCTTATGCTTCTTAGGTATTGCTTAGGCTGATAGGGGCCATCTCTACTGGTTT 1120
 I L P P S L Q T S Y V F L G I V L A L I G A I F L L V
 TGTATTTGAACCGCAAGGGATAAAGAAGTGGATGCATAACATCAGAGATGCCCTGCAGGGATCACATGGAAGGGTATCAC 1200
 L Y L N R K G I K K W M H N I R D A C R D H M E G Y H
 TACAGATACGAAATCAATGCAGACCCCCAGGTTAACAAACCTCAGTTCCAATTGGATGTCTGA
 Y R Y E I N A D P R L T N L S S N S D V . 1263